ABSTRACT OF THE DISCLOSURE

A fuel supply system comprising a means for detecting operating condition of an engine, a means for calculating the width of the fuel injection pulse including valve-opening signal and holding signal based on the detected operating condition, a means for supplying valve-opening current to the solenoid located in the fuel injector based on the fuel injection pulse width, and a means for supplying solenoid holding current for holding the valve-opening condition after the valve-opening current has reached the predetermined current value; and the fuel supply system supplying current to the solenoid when the logical product of the valve-opening signal and the holding signal has been formed, and the fuel supply system diagnosing an abnormality of the fuel injector when the time period from the start of the fuel injection pulse until the valve-opening current reaches the predetermined current value is shorter than the predetermined one.